

## CLAIMS

1. A DNA fragment which has one of the sequence Seq. ID. NO 1 to 4 or 6 to 24
- 5 2. A method of diagnosis and identification Mycobacterium strain comprising the step of
  - a) digesting a DNA fragment which has one of the sequence Seq. ID. NO 1 to 4 or 6 to 24 with restriction enzyme to obtain DNA fragment length polymorphism pattern ;
  - 10 b) isolating DNA fragment from microorganism to identify;
  - c) amplifying said DNA fragment;
  - d) digesting said amplified DNA fragment with the same restriction enzyme in step a) ;
  - e) obtaining DNA fragment length polymorphism pattern from DNA fragment in step d) ; and
  - 15 f) comparing DNA fragment length polymorphism pattern from step a) with DNA fragment length polymorphism pattern from step e).
3. A method of claim 2, wherein said DNA fragment length polymorphism from step a) and step e) are characterized as obtaining by electrophoresis.
- 20 4. A method of claim 3, wherein said restriction enzyme is characterized as *HaeIII*, *MspI*, *Sau3A1* or *BstEII*.
- 25 5. A method of claim 2, wherein said Mycobacteria strain is characterized as *M. tuberculosis*, *M. avium*, *M. abscessus*, *M. flavescence*, *M. africanum*, *M. bovis*, *M. chelonae*, *M. celatum*, *M. fortuitum*, *M. gordonae*, *M. gastri*, *M. haemophilum*, *M. intraecellulare*, *M. kansasii*, *M. malmoense*, *M. marinum*, *M. szulgai*, *M. terrae*, *M. scrofulaceum*, *M. ulcerans* or *M. xenopii*.